



**induced seismicity work**   
**Jill Dean** to: druss

12/21/2011 08:50 AM

Hi Dave,

Bruce Kobelski forwarded me your email because I'm managing an interagency agreement with USGS Earthquake Science Center in Menlo Park for some induced seismicity work related to injection activities. The IA forms some support for a report that is in development by the Underground Injection Control (UIC) National Technical Workgroup on practical tools that UIC regulators can use to help prevent injection-induced seismicity. (The Workgroup is made up of EPA HQ and regional staff as well as several state UIC representatives.)

I heard a rumor lately that some other induced seismicity work may be going on in the USGS National Water Research Program, but I've been unable to confirm who may be conducting the work or what the details of the work might be. Do you have any details on this?

Thanks,

Jill Dean  
Physical Scientist  
OGWDW / DWPD  
Phone: 202-564-8241  
Fax: 202-564-3757

----- Forwarded by Bruce Kobelski/DC/USEPA/US on 11/21/2011 04:34 PM -----

From: David P Russ <druss@usgs.gov>  
To: Bruce Kobelski/DC/USEPA/US@EPA  
Cc: David P Russ <druss@usgs.gov>  
Date: 11/21/2011 04:07 PM  
Subject: Re: Good job at the Senate hearing

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Bruce:

Thanks for your message; it was nice hearing from you. I think you would be interested to know that I'm working with DOE and EPA (Bob Sussman, Headquarters, Special Council) to develop a Federal hydrofracturing research plan that we'll submit to OMB and OSTP in a couple of weeks. The plan will include induced seismicity that appears, in some cases, to be generated by subsurface injection of flowback waters. USGS is, in fact, receiving some modest funding from EPA for recent earthquakes in Texas and we've been working with Arkansas State agencies on the earthquake occurrences there hypothesized to have been generated by fluid injection. We've signed a cooperative agreement with EPA relative to EPA's Federal study "prospective well site" near the Pittsburgh airport. We will be drilling several groundwater observation wells to monitor conditions in proximity to where Range Resources, Inc is a drilling a production well. This effort is also being coordinated with DOE NETL. Are you involved with any of these activities?

Dave

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David P. Russ  
Regional Executive for the Northeast

U.S. Geological Survey, MS 953  
12201 Sunrise Valley Drive  
Reston, VA 20192  
Work: (703) 648-6660

From: Kobelski.Bruce@epamail.epa.gov  
To: 'David P Russ' <druss@usgs.gov>  
Date: 11/21/2011 02:31 PM  
Subject: Good job at the Senate hearing

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David,

Douglas passed on your contact information to me, and since I just had lunch with him at a CCS meeting in Pittsburgh, I lamented that I didn't get around to saying hello to you.

You testified with my Office Director, Cynthia Dougherty, a few weeks ago and we watched you on the live link to that hearing on hydraulic fracturing.

I've been here at EPA in the UIC program since 1986 and was with MMS for 4 years before that, and have been involved with various pieces of the HF puzzle since the mid 1990s. My claim to fame (or shame) had been co-authoring the first study on coalbed methane HF, although we greatly appreciated the help we received from the USGS Coal division at the time.

Anyway, good to "see" you , and if wanted any contact information out of us, feel free to call.

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Bruce J. Kobelski, Geologist/GS Team Leader (PSU M.S. 1977 via Duff Gold)  
Underground Injection Control Program - USEPA  
Office of Ground Water and Drinking Water  
DWPD (4606M)  
(202) 564-3888 or FAX (202) 564-3756